**Call For Papers GEM Workshop, Graph Embedding and Mining Co-located with ECML-PKDD, September 2020.**

**https://gem-ecmlpkdd.github.io/**

[Please accept our apologies if you receive multiple copies of this Call for Papers (CFP)]

We invite contributions in the area of exploration and analytics on graphs (algorithms, models, tools, evaluations, etc.) to be presented at the GEM workshop which is to be held at the European Conference on Machine Learning and Principles and Practices of Knowledge Discovery from Data (ECML-PKDD), in Ghent, Belgium - 14 – 18 September 2020.

**--- Topics of interests include ---**

Unsupervised and representation learning

- Network embedding

- Graph compression

- Entity resolution/deduplication

- Clustering

Pattern mining

- Local patterns: community detection, subgraph mining

- Graph summarization

- Subgroup discovery on graphs

Supervised learning

- Classification

- Link prediction

Exploration

- Visualization

- Visual analytics

Modeling

- Random graph models

- Opinion formation

- Information propagation

Data management for graph analytics

- Data models and structures

- Index structures

Applications

- Social network analysis

- Biological networks and life science data

- Communication networks

- Urban data, traffic networks

All types of approaches are welcome, e.g., graph neural networks, traditional ML, random walk methods, Bayesian inference, information theoretical approaches, and we encourage authors to consider the breadth of graph data types (attributed, dynamic graphs, etc.).

--- The workshop ---

The workshop will feature

- a keynote speaker,

- a few contributed talks,

- a poster session, and

- small-group discussions on hot topics that are aimed to bring together academia and industry or end-users in application areas.

Keynote speaker will be Tijl De Bie.

--- Submission Information ---

All papers will be peer-reviewed, single-blinded. We welcome many kinds of papers, such as (and not limited to):

- Novel research papers

- Demo papers

- Work-in-progress papers

- Visionary papers (white papers)

- Appraisal papers of existing methods and tools (e.g., lessons learned)

- Relevant work that has been previously published

Authors should indicate in their abstracts the kind of submissions that the paper belongs to, to help reviewers better understand their contributions. Submissions must be in PDF, written in English, not longer than 16 pages (including references and supplemental material), and formatted according to the standard Springer LNCS style. Shorter papers (including extended abstracts) are also welcome.

Accepted papers will be presented as a poster in the poster session and a few will be selected to also give an oral presentation. The papers will be posted on the workshop website (unless the authors opt out), but will not be published in a formal proceeding.

For accepted papers, at least one author must register for the conference and attend the workshop to present the work.

Submit via EasyChair: TBA - <https://easychair.org/conferences/?conf=gem2020>

--- Important Dates ---

Submission: June 9, 2020

Notification: July 9, 2020

Camera-ready: July 23, 2020

Workshop date: TBA

--- Further information and Contact ---

Organizers: Remy Cazabet, Bo Kang, Christine Largeron, Charlotte Laclau, Tiphaine Viard, Pascal Welke

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